Compatibility with Predict Version 3.2

To ensure that existing user programs continue to be executable without changing the parameter data area, the program PALUD is still available (along with the parameter data area PALPUD). If you wish to use PALUD, you must ensure that the metadata of the corresponding user-defined object has the format of version 3.2.

> **Note:**
> The program PALUD returns a maximum of 24 keywords for one object ID.

API Functions of Version 3.2

The following functions are still supported with Predict Version 4.2 to ensure compatibility with Version 3.2:

- GD - Get Extended Description
- MD - Modify Description
- S - Scratch an Object

GD - Get Extended Description

This function retrieves the extended description of an object. An extended description can contain more than one record. Each call of the function reports one record. A loop must be coded to read more than one record.
The fields #DESC-NUMBER and #DESC-COUNTER are used to specify how many lines of the extended description are read (see description below).

Input Fields

Field Name	Format	Description
#OBJECT-TYPE	A2	Predict Object Type
#OBJECT-ID	A32	Predict Object ID
#SYSDIC-USER	A250	User area
#DESC-COUNTER	N4	Must be incremented for each call of the GD function if GD is called more than once (see example below). Note that #DESC-COUNTER is 0 after the first record of an extended description has been read.

Output Fields

Field Name	Format	Description
#DESC-NUMBER	N4	Number of existing description records. #DESC-NUMBER is returned after the function has been executed first. Can be used as end value in a loop if more than one record of an extended description is to be read.
#EXT-DESCRIPTION (1:27)	A76	27 lines of description
#SYSDIC-USER	A250	User area
#RESP-CODE	I2	Predict error message number
#RESP-TEXT1	A34	Text for parameter 1 used in the error message
#RESP-TEXT2	A34	Text for parameter 2 used in the error message

Example

```
DEFINE DATA LOCAL
      USING PALPUD
END-DEFINE
*
#FUNCTION        = 'GD'
#OBJECT-TYPE     = 'OO'
#OBJECT-ID       = 'ULH-OO-FILLED'
*
REPEAT
  CALLNAT 'PALUD' #FUNCTION #OBJECT-TYPE #CHILD-TYPE #OBJECT-ID
                  #OBJECT-COMPLETE #MAINTENANCE-ACTIVITY #RESP-GR
                  #SYSDIC-USER #INTERNAL #API-INFO(*)
*
  DISPLAY (ES=ON) #EXT-DESCRIPTION(*)
  ADD 1 TO #DESC-COUNTER
  IF #DESC-COUNTER > #DESC-NUMBER
      ESCAPE BOTTOM
LOOP
END
```

MD - Modify Description

This function deletes the existing extended description of an object and adds a new extended description.
#EXT-DESCRIPTION are returned by PALUD because the extended description may have been converted to upper case.
The following rules apply:

- Before PALUD is called for the first time with the function MD, #DESC-INFO must be set to F. This has the effect
    - that the old extended description is deleted, and
    - that a first record of the new extended description is stored.
  We therefore recommend assigning at least one line of an extended description to #EXT-DESCRIPTION before PALUD is called for the first time (see example below).
- After the first call of PALUD, #DESC-INFO must be reset (as shown in the example below).
- Before any new records are stored, the old extended description is purged.
- Up to 27 lines of description can be specified in one call of MD.
  If more lines are to be added, the function must be called again.
- After transferring a new extended description, the parameter #DESC-INFO must be set to L (last line) and an additional call of PALUD must be performed before the END OF TRANSACTION. This ensures:
    - the status information of the respective object is updated
    - the user exit U-DESC is executed (if activated).

Input Fields

Field Name	Format	Description
#OBJECT-TYPE	A2	Predict Object Type
#OBJECT-ID	A32	Object ID
#DESC-INFO	A1	Specifies first (F) and last (L) access of extended description
#EXT-DESCRIPTION (1:27)	A76	Up to 27 lines of description can be specified in one call of MD
#SYSDIC-USER	A250	User area

Output Fields

Field Name	Format	Description
#DESC-COUNTER	N4	Number of current description record
#EXT-DESCRIPTION (1:27)	A76	Up to 27 lines of description can be specified in one call of MD
#OBJECT-COMPLETE	A1	Whether object has been defined completely. Valid values: • 0 Complete • 1 Owner missing (force) • 2 Description missing (force) • 3 Owner and description missing (force)
#SYSDIC-USER	A250	User area
#RESP-CODE	I2	Predict error message number
#RESP-TEXT1	A34	Text for parameter 1 used in the error message
#RESP-TEXT2	A34	Text for parameter 2 used in the error message

Example

```
MOVE 'F' TO #DESC-INFO /* First record
MOVE 'abc' TO #EXT-DESCRIPTION(1)
CALLNAT 'PALUD' 'MD'  #DESC-INFO ... #EXT-DESCRIPTION(*) ....
RESET #DESC-INFO
MOVE 'def' TO #EXT-DESCRIPTION(1)
CALLNAT 'PALUD' 'MD'  #DESC-INFO ... #EXT-DESCRIPTION(*) ....
MOVE 'L' TO #DESC-INFO /* Last record
CALLNAT 'PALUD' 'MD'  #DESC-INFO ... #EXT-DESCRIPTION(*) ...
     /* ensures update of status info and execution of U-DESC (if activated)...
END TRANSACTION
```

S - Scratch an Object

This function deletes an object, all links to child objects, and all links from parent objects to the deleted object.

> **Note:**
> The function D (Delete) of Version 3.3 corresponds to the function S (Scratch) of Version 3.2. The Delete functionality of Version 3.2 has not been available since Predict Version 3.3.

Input Fields

Field Name	Format	Description
#OBJECT-TYPE	A2	Predict Object Type
#OBJECT-ID	A32	Object ID

Output Fields

Field Name	Format	Description
#SYSDIC-USER	A250	User area
#RESP-CODE	I2	Predict error message number
#RESP-TEXT1	A34	Text for parameter 1 used in the error message
#RESP-TEXT2	A34	Text for parameter 2 used in the error message